

## GILA RIVER BASIN

### 09478500 QUEEN CREEK BELOW WHITLOW DAM NEAR SUPERIOR, AZ

**LOCATION**--Lat 33°17'57", long 111°16'37", in NW<sub>1/4</sub>SE<sub>1/4</sub> sec. 36, T.1 S., R.10 E., Pinal County, Hydrologic Unit 15050100, 1 mi upstream from Queen Valley and 10 mi west of Superior. Gage is located on the outlet box structure below Whitlow Ranch Dam.

**DRAINAGE AREA**--144 mi<sup>2</sup>.

**PERIOD OF RECORD**--Jan. 1896 to Dec. 1897, Jan. 1898 to Aug. 1899 (fragmentary), Feb. to Sept. 1915 (gage-heights only), Oct. 1915 to Sept. 1920, May 1948 to Jan. 1959. Apr. 2001 to current year. Published as "at Whitlow's Ranch" 1896-99, "near Superior" 1915-20 and as "at Whitlow Dam Site near Superior" 1948-59.

**GAGE**--Water-stage recorder. Elevation of gage is 2,040 ft above sea level, from topographic map. From Jan. 25, 1896, to Aug. 11, 1899, and Feb. 14, 1915 to Sept. 30, 1920, staff gages were operated in the vicinity of the present gage at different datums. Stilling-well gages were operated from May 1, 1948, to Aug. 19, 1954, and Jan. 6, 1955, to Jan. 1959 at sites about 1,100 ft and 800 ft upstream and datums of 2,048.96 and 2,045.70 ft above mean sea level, respectively.

**REMARKS**--Records poor.

**EXTREMES FOR PERIOD OF RECORD**--1915-20, 1948-59: Maximum discharge, 42,900 ft<sup>3</sup>/s Aug. 19, 1954. No flow at times in each year. 2001-present: Maximum discharge, 620 ft<sup>3</sup>/s Aug. 14, 2001, estimated. Minimum daily discharge, 0.63 ft<sup>3</sup>/s June 26-27, Sept. 2-5, 2002.

**EXTREMES FOR CURRENT YEAR**--Maximum discharge, 265 ft<sup>3</sup>/s Feb. 28 (estimated). Minimum daily discharge, 0.32 ft<sup>3</sup>/s Nov. 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.87	0.87	0.80	0.63	e0.38	10	e1.5	1.9	1.5	1.2	0.74	e0.74
2	0.87	0.87	0.63	0.64	e0.38	0.63	e1.5	1.8	1.4	1.3	0.73	0.64
3	0.87	0.74	0.63	0.63	e0.36	0.73	e1.5	1.7	1.4	1.3	0.74	0.68
4	0.88	0.64	0.63	0.63	e0.35	0.93	e1.5	1.5	1.5	1.4	0.68	0.76
5	0.96	0.63	0.63	0.63	e0.35	0.99	e1.5	1.3	1.5	1.5	0.75	0.81
6	1.1	0.63	0.63	0.65	0.32	0.99	e1.5	e1.3	1.6	1.5	0.79	0.82
7	1.1	0.63	0.63	0.67	0.35	0.96	e1.5	e1.3	1.6	1.5	0.75	0.77
8	1.1	0.63	0.63	0.75	0.40	1.2	e1.5	e1.3	e1.6	1.5	0.69	0.75
9	0.87	0.63	0.63	0.84	0.43	1.3	e1.5	e1.2	1.4	1.3	0.71	0.85
10	0.87	0.64	0.63	0.85	0.43	1.4	e1.5	e1.2	1.6	1.1	0.66	0.88
11	0.63	0.63	0.63	0.87	0.43	1.4	1.4	1.1	e1.6	e1.1	0.56	0.88
12	0.63	0.63	0.44	0.76	0.43	1.5	1.4	1.1	e1.6	1.2	0.57	0.87
13	0.63	0.63	0.43	0.63	0.48	1.6	1.5	1.1	e1.6	1.2	0.58	0.89
14	0.63	0.63	0.43	0.63	0.59	1.8	1.7	1.1	e1.5	1.1	0.60	0.86
15	0.52	0.46	0.43	0.64	0.63	e1.8	1.6	1.1	e1.5	1.1	0.59	0.88
16	0.54	0.33	0.43	0.63	e0.44	e1.8	1.4	1.2	1.4	1.1	0.58	0.85
17	0.64	0.35	0.43	0.63	e0.43	e1.8	1.5	1.4	1.4	0.93	0.58	0.79
18	0.67	0.32	0.43	0.63	e0.43	e1.7	1.5	1.4	1.5	0.92	0.58	0.63
19	0.85	0.38	0.43	0.63	e0.42	e1.7	1.7	1.2	1.4	0.99	0.60	0.85
20	0.87	0.43	0.44	0.63	0.43	e1.7	1.7	1.3	1.4	e0.93	0.60	0.88
21	0.87	0.46	0.43	0.64	0.43	e1.7	1.7	1.3	1.3	0.89	0.61	0.62
22	0.87	0.45	0.44	0.44	0.43	e1.7	1.7	1.2	1.4	0.89	0.62	0.63
23	0.79	0.45	0.46	0.54	0.44	e1.6	1.7	1.1	1.3	0.87	0.67	0.63
24	0.85	0.43	0.46	0.63	0.44	1.5	1.8	0.95	1.1	0.89	0.70	0.67
25	0.85	0.43	0.59	0.51	0.64	1.6	1.8	0.98	1.2	0.92	0.71	10
26	0.87	0.43	0.63	e0.49	10	1.7	1.6	0.88	1.3	0.85	0.77	0.64
27	0.87	0.44	0.64	e0.47	0.80	1.6	1.7	0.88	1.3	0.87	0.87	0.68
28	0.87	0.51	0.64	e0.44	10	1.5	1.7	0.92	1.2	0.72	0.88	0.68
29	0.87	0.68	0.63	e0.42	---	e1.6	1.8	0.97	1.1	0.76	0.84	0.65
30	0.87	0.87	0.63	e0.40	---	e1.5	1.9	1.4	1.1	0.75	e0.92	0.63
31	0.87	---	0.64	e0.39	---	e1.5	---	1.5	---	0.67	e0.88	---
TOTAL	25.55	16.85	17.18	18.97	31.64	53.43	47.8	38.58	42.3	33.25	21.55	31.91
MEAN	0.82	0.56	0.55	0.61	1.13	1.72	1.59	1.24	1.41	1.07	0.70	1.06
MAX	1.1	0.87	0.80	0.87	10	10	1.9	1.9	1.6	1.5	0.92	10
MIN	0.52	0.32	0.43	0.39	0.32	0.63	1.4	0.88	1.1	0.67	0.56	0.62
MED	0.87	0.63	0.63	0.63	0.43	1.6	1.5	1.2	1.4	1.1	0.69	0.76
AC-FT	51	33	34	38	63	106	95	77	84	66	43	63
CFSM	0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01

CAL YR 2002 TOTAL 442.21 MEAN 1.21 MAX 2.5 MIN 0.32 MED 0.98 AC-FT 877 CFSM 0.01  
WTR YR 2003 TOTAL 379.01 MEAN 1.04 MAX 10 MIN 0.32 MED 0.86 AC-FT 752 CFSM 0.01

e Estimated